





PAGER Version 11

10,000

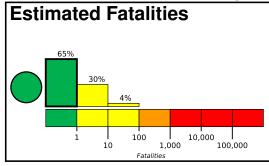
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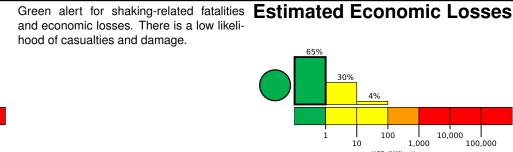
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Created: 1 day, 0 hours after earthquake

M 4.5, 15 km SW of Westley, CAOrigin Time: 2023-09-19 04:13:09 UTC (Mon 21:13:09 local)
Location: 37.4419° N 121.2214° W Depth: 10.6 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov





Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		2,562k*	12,904k	46k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

37.8°N

120.8° Auburr Roseville acran ento Stockton

36.6°N

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PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

population per 1 sq. km from Landscan **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2003-12-22	203	6.6	VI(8k)	2
1980-01-24	53	5.8	VII(35k)	1
1989-10-18	60	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Patterson	20k
IV	Gustine	6k
IV	Newman	10k
Ш	Hollister	35k
Ш	Ridgemark	3k
Ш	Riverdale Park	1k
II	San Jose	946k
II	San Francisco	805k
II	Fresno	495k
II	Sacramento	466k
I	Carson City	55k

bold cities appear on map.

(k = x1000)